

MR1957-847

Serial No. 10/774,511

Responsive to Official Action dated 24 August 2004

AMENDMENTS TO THE SPECIFICATION

I. Please replace the paragraph on page 1, beginning on the line numbered 5 and ending on the line numbered 6, with the following amended paragraph:

The present invention relates to a plug connector and, more particularly to a plug connector having an adapter sleeve for use in being transferred as with jacks of different standards.

II. Please replace the two consecutive paragraphs on page 2, the line numbered 7 and ending on the line numbered 19, with the following amended paragraphs:

It is therefore a principal object of the present invention to provide a plug connector for use in a with jacks of different standards transfer, where which can make an insulating housing of a plug, with a uniform size, is adaptable for use with jacks of be transferable to two standards, so that the manufacturing cost

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thereof can be effectively reduced, and it is extremely simple and easy to obtain the ~~standard transfer~~ adaptability. Furthermore, the present invention has been accomplished to eliminate the aforesaid problem.

In order to achieve the above object, a plug connector ~~for use in a standard transfer~~ includes an insulating housing, a plurality of terminals and ~~an transferring element~~ adapter sleeve. The insulating housing has a plurality of terminal grooves formed in a front end thereof. The terminals are respectively arranged in the terminal grooves. The ~~transferring element~~ adapter sleeve is coupled on the insulating housing, and the ~~transferring element~~ adapter sleeve is moveably adjusted at a predetermined position on the insulating housing ~~due to the~~ to adapt to different standards transfer.

III. Please replace the paragraph beginning on page 4, line 16, and ending on page 5, line 2, with the following amended paragraph:

With reference to FIGS. 2 to 3, the present invention provides a plug connector for use in a coupling to jacks of different standards transfer including an insulating housing 10, a plurality of terminals 20 and ~~an transferring element~~ adapter sleeve 30. The insulating housing 10 is made of an insulating material,

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such as, for example, plastic. The inside of the insulating housing 10 is hollow. The insulating housing 10 has a tongue element 11 formed on an outer side thereof for ~~hooking and positioning the plug in a jack and providing releasable latching engagement therewith~~. The insulating housing 10 has a plurality of terminal grooves 12 equidistantly formed in a front end thereof. The terminal grooves 12 are in communication with the inside of the insulating housing 10. The insulating housing 10 includes a plurality of slots 13 formed in two opposite sides of a middle position and a rear position thereof for positioning the ~~transferring element~~ adapter sleeve 30.

IV. Please replace the seven consecutive paragraphs beginning on page 5, line 7, and ending on page 7, line 7, with the following amended paragraphs:

The ~~transferring element~~ adapter sleeve 30 is made of an insulating material, such as, for example, plastic. The ~~transferring element~~ adapter sleeve 30 has a main body 31 and two arms 32. The main body 31 is substantially rectangular in shape. The width of the main body 31 is larger than that of the insulating housing 10. The main body 31 has a receiving opening 33 according to

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the width of the insulating housing 10. The two arms 32 can be integrally formed on two sides of the main body 31. Each arm 32 has two protrusions 34 respectively projecting inward from a front position and a rear position thereof. The two protrusions 34 are respectively hooked into the slots 13 at two sides of the insulating housing 10.

The ~~transferring element~~ adapter sleeve 30 is coupled on the insulating housing 10 via the receiving opening 33. The ~~transferring element~~ adapter sleeve 30 can be moveably adjusted at a predetermined position (such as a first position or a second position) on the insulating housing 10.

When the ~~transferring element~~ adapter sleeve 30 is backward moved into the first position (shown in FIGS. 3 and 4), the protrusions 34 of the two arms 32 are respectively hooked into the slots 13 at the two sides of the middle position and the rear position of the insulating housing 10, thereby to define a positioning mechanism. Thus the ~~transferring element~~ adapter sleeve 30 can be securely positioned at a rear-half portion of the insulating housing 10.

When the ~~transferring element~~ adapter sleeve 30 is forward moved in the second position (shown in FIG. 5), the protrusions 34 of the two arms 32 are respectively hooked into the slots 13 at the two sides of the middle position and two front edges of the insulating housing 10. Thus the ~~transferring element~~ adapter sleeve 30 can be securely positioned at a front-half portion of the insulating housing 10.

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The conductive ~~lines~~ wires 40 are extended into an inside of the insulating housing from a rear of the insulating housing. The outer layer of the conductive lines 40 are pierced by the piercing end of the terminal grooves 12, so that the terminals 20 can be electrically connected to the conductive ~~lines~~ wires 40.

In the present invention, the plug connector mainly provides a technical feature in that the ~~transferring element~~ adapter sleeve 30 is moveably adjusted on the insulating housing 10 for use ~~in being transferred to~~ with jacks of different standards. When the ~~transferring element~~ adapter sleeve 30 is backward moved in the first position, the front-half portion of the plug connector ~~can obtain~~ has a small standard dimension, for insertion into a complementary jack connector ~~with~~ a of the smaller standard (shown in FIG. 4). When the ~~transferring element~~ adapter sleeve 30 is moved forward into the second position, the ~~transferring element~~ adapter sleeve 30 is coupled at the front-half portion of the insulating housing 10, so that the front-half portion of the plug connector has a larger width to obtain a large standard dimension for insertion into another complementary jack connector ~~with~~ of the larger standard (shown in FIG. 5).

Furthermore, the present invention can enable the plug connector to obtain different size standards due to the movement of the ~~transferring element~~ adapter sleeve 30, so that the insulating housing 10 with the single size standard can be ~~transferred to~~ used with two standards. The present invention also can be simultaneously applied in different standards of plug and inserted in different

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standards of jack. When a factory owner wants to manufacture different standards of plug, he doesn't need ~~renew the molding~~ new molds to manufacture different sizes of insulating housing, thereby effectively reducing the manufacturing cost. Furthermore, standard ~~transfer~~ adaption is extremely easy.

V. Please replace the two consecutive paragraphs beginning on page 7, line 15, and ending on page 8, line 20, with the following amended paragraphs:

Additionally, referring to FIGS. 7 to 10, the shapes and structures of the insulating housing 10 and the ~~transferring element~~ adapter sleeve 30 also can provide different variations. The ~~transferring element~~ adapter sleeve 30 can be coupled on the insulating housing 10, and the ~~transferring element~~ adapter sleeve 30 can be moved between the first position and the second position (shown in FIGS. 9 and 10). This embodiment further includes a ~~connector~~ connecting body 60 made of a plastic material. The inside of the ~~connector~~ connecting body 60 can be penetrated by a plurality of conductive lines (not shown). The ~~connector~~ connecting body 60 has a plurality of line grooves 61. The conductive lines are inserted into the line grooves 61 from a rear end of the ~~connector~~ connecting body 60. The ~~connector~~ connecting body 60 is inserted from a rear end of the insulating housing 10, so that the ~~connector~~ connecting body 60 and with the conductive

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lines 61 are extended into an inside of the insulating housing 10. The ~~connector~~ connecting body 60 is fastened in the inside of the insulating housing 10. Thus the ~~connector~~ connecting body 60 and the insulating housing 10 can be combined into one piece. The terminals 20 are pressed into the line grooves 61, so that the outer layer of the conductive lines can pierce through the piercing end of the terminals 20 for achieving an electrical connection.

Additionally, referring to FIGS. 11 to 14, the shapes and structures of the insulating housing 10 and the ~~transferring element~~ adapter sleeve 30 also can obtain different variations. The ~~transferring element~~ adapter sleeve 30 can be coupled on the insulating housing 10, and the ~~transferring element~~ adapter sleeve 30 can be moved between the first position and the second position (shown in FIGS. 13 and 14). This embodiment mainly provides a protection element 62 formed at an outer side of the ~~connector~~ connecting body 60. When the ~~connector~~ connecting body 60 and the insulating housing 10 are combined together, the protection element 62 is arranged on an outer of the tongue element 11 of the insulating housing 10. The protection element 62 can prevent the tongue element 11 from being broken in collision or incautiously hooking other articles. Furthermore, the lifetime of the tongue element 11 can be substantially increased. The ~~connector~~ connecting body 60 has a bulge 63 formed thereon. When the transferring element 30 is in the first position, it can be positioned via the bulge 63.